

FIG 1

FIG 2

start

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Calculating a cross-correlation matrix between multiple monitored signals for a predetermined clinical condition

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Identifying those monitored signals having a cross-correlation above a predetermined threshold for the predetermined clinical condition

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For each pair of highly correlated monitored signals, determining a range of probabilities for the predetermined clinical condition

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For each monitored signal for which there is a sample, calculating a probability of observing the sample along with a sample from a highly correlated monitored signal for all combinations of pairs of highly correlated monitored signals for which samples exist, along with a confidence value for each calculated probability

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Weighting the calculated probabilities for observing the paired samples using the probability range and the confidence values

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For each monitored signal for which there is a sample, summing all of the weighted probabilities over all highly correlated monitored signals

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outputting a result for each sample as a probability of not including an artifact in each sample, wherein if one or more of the probabilities of not including an artifact lies below a predetermined threshold indicating to a user that one or more samples associated with the probability may include an artifact

27

YES

More samples?

NO

Stop

28

FIG 3

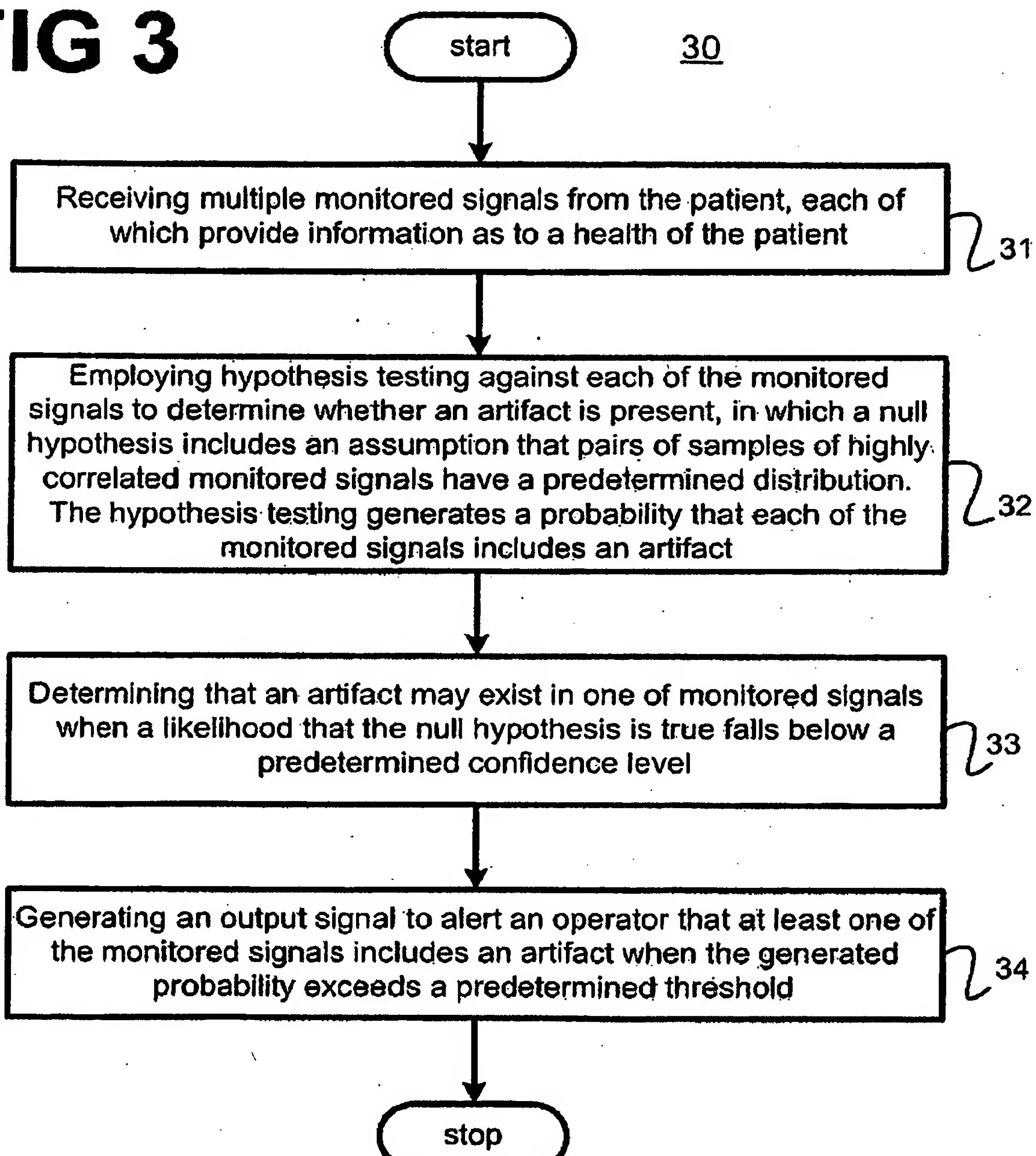


FIG 4

